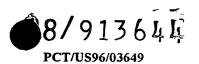
							~										
			10		_ 20)		3	0		40		50)		60)
	Α	IGGC	TTTGT	GGÇG	GCCTA	STGA	CAA	ATAC	CGT	[ATA	CCTTC	CACC	TCCTT	CTG	rgg(CAAGA	\
	1 1	1 A	L.	W F	(P S	S D) 1	1 T	V	/ Y	LF	P) .p	5 1		A R	20
			70		80			9	0		100	•	110)		120	
	G٦	TGT	AAATA	CTGA	TGATTA	ATGT	GAC	CTCG	CAC	CAAG	CATATT	TTA	TCATGO	TGG	CA(CTCT	
2	1 ١	/ V	N ·	T) D Y		7	R	Ţ	S	I F						40
			130		140			15			160		170)		180	-
	ΑG	ATT	ATTAA	CTGT	TGGTAA	TCC.	ATA	TTT	TAG	GGT	TCCTGC	AGG	TGGTGG	CAA	TAA	AGCAG	
4	l R	L	L -	Γ۷	G N	l P	Υ	F	R	. V						(0	60
			190		200	1		210)		220		230		, ,	240	00
	GΑ	TAT	TCCTA	AGGT	TTCTGC	ATA	CCA			AGT.	ATTTCG	GGT	GCAGTT	ΔCC	TCA	ጉተር ሊተር	
6.	L D	I	P k	< v	S A	Y	0	Υ	R	V	FR	V					80
			250		260			270		-	280	•	290	•	U	300	60
	AΑ	TAA	ATTTGG	TTT	ACCTGA		TAG			ΤΔΔ	TCCTGA	ΔΔΩ	770 770	ттт	۸۲	CTCC	
81	. N	Κ	FG	i	P D	N	s	I	Υ	N	P E		Q R		AGI V		100
			310	_	320		J	330		- ' '	340	'	350	L	V	W	100
	GC	CTG ⁻		AGT	GGAAAT	TGGC	rre	TGGT	, -ΓΛί	CCC.	TTTACC	TCT	UCC TOOCCT	TAC	TCC	360	
101	Α	C	A G	V	E I	G	R	rua i	Q	Р	L G						100
	• .	Ū	370	•	380	u	- 11	390		Г		V	G L	S	G		120
	CC	ΔΤΤΊ		ΤΔΔ	ATTAGA	TCAC	٠٧٠.			rtco	400	2007	410		F 0 -	420	
121	P	F	YN	K	L D	D	T	E	MG .	ווענ							•
	•	•	430		440	U	'	450		S		Α		N	٧	S	140
	GΔ	3GA(CCAC		тот	CT.				460		470			480	
141	E	D	V R	aaAi D	CAATGT(N V	S	ui/	AGA I	IAI	AAG	CAGACA	4CAG		_	HT(
7.47	_	U	490	U		3	V			K	Q T	Q	L C	1	L	G	160
	TC	rece		T / T 7	- 500		т.	510			520		530			540	
161	C	A	CCIGC	1 A I I	GGGGA/	4CAC	16	aGC I.	AAA							TTTA	
101	C	А	P A	I	G E	Н	W		K	G	T A	С	K S	R	Р	L	180
	TC		550	TTO	560		٠	570			580		590			600	
181	I U	1CAG			1222222	-						TTG	GAAGAT	GGT	GA7	ATG	
101	S	Q	G D	С	P P	L	Ε	L	• • •	N	T V	L	E D	G	D	Μ	200
	CTA	C 4 T	610	A T A T	620			630			640		650			660	
201	GIA	NGA I	AC IGG/	AIAI	GGTGCC	AIG	GAC	:T <u>T</u> T/	AGT	ACA	TTGCAA	GAT.	ACTAAA	TGT	GAG	GTA	
201	٧	D	1 G	Y	G A	М			S	T	L Q	D	T K	С	E	V	220
		T T0	670		680			690			700		710			720	
001	CCA	HIG	GATAT	TGT	CAGTCT	ATT	TGT	AAA	ΓΑΤ	CCT	GATTAT	TTA	CAAATG	TCT	GCA	GAT	-
221	Р	L	D I	С	Q S	I	С	K	Υ	Р	D Y			S			240
			730		740			750			760		770			780	
	CCT	TAT	GGGGAT	TCC	ATGTTT	TTT	TGC	TTAC	CGA	CGT	GAGCAG	CTT	TTTGCT	AGG	CAT	TTT	
241	Р	Υ	G D	S	M F	F	С	L	R	R	E Q	L	F A	R	Н		260
			790		800			810			820		830			840	
	TGG	AATA	AGGGCA	GGT.	ACTATG	GGT	GAC.	ACTO	TG	CCT	CAATCC	TTAT	ΓΑΤΑΤΤ	ΑΑΑ	GGC	ACA	
261	W	N	R A	G	T M	G	D	T	٧	Р	QS			K		T	280
												_		1	u	'	200

FIG. 1A



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													•								
				50			860			870			8	80.			890			900	
	GGT	ΓΑΤ	GCG	TGC	TTC	ACC [*]	TGG	CAG	CTG	TGT	GTA	TTC	TCC	CTC	TCC/	\AG	TGG	CTC1	AT	TGTT	
281	G	M	R	Α	S	Р	G	S	С	٧	Υ	S	Р	S	Р	S	G	S	Ι	٧	300
				10			920			930				40		(950			960	
	ACC	CTC	TGA	CTC	CCAC	GTT(GTT	TAA	ΓΑΑ	ACC/	ATA	TTG	GTT.	ACAT	AAG	GC/	ACA(GGGT	CA	ГААС	
301	Т	S	D	S	Q	L	F	N	K	Р	Υ	W	L	Н	K		Q	G	Н	Ν	320
				70	•		980			990			10			10	010]	1020	
	AAT														GAT	AC(CACT	CGT	AG1	FACC	
321	N	G	I		W	Н	N	Q	L	F	٧	Τ	٧	٧	D	T	T	R	S	T	340
			100)40			1050			100	60		10	70		1	.080	
	AAT	TT	4ACA	4ATA		GCT	TTC	TACA	ACA(GTC1	CCT	TGT/	ACC ⁻	TGGG	CAA	rat.	GA7	GCT	ACC	CAAA	
341	N	L		-	С			T	Q	S	Р	٧	Р	G	Q	Υ	D	Α	T	K	360
			109	-			00			1110			112				.30		1	140	
	TIT	AA(TTT(GCAG	TTT	ATT	TTT	CAG	TTA	TGT	
361	F	K	_	Υ	S		Н	٧		E		D	L	Q	F	I	F	Q	L	С	380
			115				.60			170			118				90		1	200	
001				TTA	ACT									ragt	ATG	AAT	AGC	AGT	ATT	TTA	
381	T	I	T	L	T	Α	D	٧		S		I		_	М	N	S	S	I	L	400
	0.4.0	^	121				20			.230			124			12	50		1	260	
401	GAG	GA I	I GC	iAA(. 1 1 1	GGT	GTT	CCC	CCC	CCG	CCA	AC1	TACT	AGT	TTG	GTG	GAT	ACA [*]	TAT	CGT	
401	E	D	W	N	F		٧	Р				Τ		S	L		D	T	Υ	R	420
		Ω Τ.	127	-	·		80			290			130				10			320	
401														GCA					4AG	GAT	
421	F	٧			٧			T				D	Α		Р	Α		N	K	D	440
	000	T A T	133				40			350			136			13				380	
441	CCC.				HA													TTG(_	TTA	
441	Р	Y	D	K	L	K		W	N	-	D	L	K		K	F	S	L	D	L	460
	CAT	~ A A	139		CTT		00			410			142			14				440	
<i>4</i> C 1	GAT		HAL												TTG(
461	D	Q		Р	L	G				L			Α		L	R		K	-	T	480
	A T A /	~~~	145	U		14	60 Tot	OOT	1	4/0			148	0		14	90		1	500	
401	ATA(اعاد	CCI	CGI	AAA	CGI	ICI	GCT	CCA	TCT(GCC.	ACT	ACG	TCT	rct/	AAA	CCT(GCCA	VAG(CGT	
481	1							Α	Р	5	Α	T	T	S	S	K	Р	Α	K	R	500
	CTC				000			T									÷				
	GTG(
501	V	К	V	К	Α	К	K	*													508

FIG. 1B

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AMINO ACID VARIATIONS IN L1 PROTEIN OF HPV18	ARIATIONS IN	L1 PROTEIN	0F HPV18		
		AMINO	AMINO ACID POSITION IN L1	ION IN L1	
	30	88	283	323	338
HPV18 PUBLISHED	۵	—	۵	>	Д
HPV18 MERCK	œ	Z	œ	-	· œ
#354 (CLINICAL INDIANA)	<u>~</u>	Z	~	>	œ
#556	~	z	œ	>	œ
#755	ı	ı	œ	>	œ
#697	ı	1	<u>~</u>	>	œ
#795	i	ı	œ	>	∞
#23 (CLINICAL PENNSYLVANIA)	1	1	22	_	~

FIG.2

SUBSTITUTE SHEET (RULE 26)

•	٠		10		20			30				0		50			60	
	AT(GGT/	ATCCC/	ACCG ⁻	TGCCG	CACG	ACG	CAA	ACG(GGC [*]	TTCG	GTG	ACT(GACTT	ATA	ΓΑΔ	AACA	
1	М	٧	SI	+ R	Α Α	A R	R	. K	R	Α	· .S	٧	T	D L	Υ	Κ	T	20
			70		80) .		90)		10	0 .		110			120	
	TG	ΓΑΑΑ	CAAT	CTGG	TACAT(STCC.	ATC	TGA1	GT	TGT	ΓΑΑΤ	AAGG	ATA	GAGGG	CAC	CAC		
21		Κ		S G	Т (٧	٧		K	٧	E G		T	<u> </u>	40
			130		140) .		150		•	16		•	170	•	•	180	
	GCA	AGAT		ΓΑΤΤ	GCAAT(AAG			ΓΑΤΑ			GTO		TGG	`ΔΤ		
41		D	K		•Q V					I			G	G L	G	ı T	G	60
		Ū	190		200		J	210		1	220		u	230	u	1		00
	Δ٢٦	LCC V		TAC/	AGGGG		ፐለር			`			CTO		TTCC	` A A	240	
61		G	S (G (
01		u		ו ג			,		Υ	I			G	G R	S	N	•	80
	СТ	-стс	250	rccol	260		T00	270			280			290			300	
01					CCTAC											AC.		
81	٧	٧	D \	/ G	P]		Р	Р	٧	٧	I	_	Р	V G	Р	T	D	100
			310		320			330			340			350			360	
			ATTG1	TACA	TAATT	AGA(GGA	CTCA	AGT	GTT	GTTA	ACAT	CAG	GTGCA	ACCT	AG	GCCT	
101	Р	S	I۱	/ T	LI	Ε	D	S	S	٧	٧	T	S	G A	Р	R	Р	120
			370		380	1		390			400)		410			420	
	ACT	TTT	ACTG	CACG	TCTGG	GTT	ΓGA ⁻	TATA	ACA	TCT	GCT	GTA	CAA	CTACA	ACCT	GC/	AGTT	
121	Τ	F	T G		S G		D		Ţ	S	Α	_	Т	ТТ	Р	Α		140
			430		440			450		_	460	-		470	•	• •	480	1.0
	TTG	GAT.	ATCAC	ACCT	TCGTC	TAC	CTC			TTA			CCA		ACC	ΔΔ		
141	L	D	ΙŢ		SS		S	V	S	I	S			N F	T	N	Р	160
	_	_	490	·	500			510	J	-	520		•	530	•	11	540	100
	GCA	TTT		TCCG	TCCAT		$G\Delta A$		$C \sim V$	$C\Lambda\Lambda$			۸۵۵		ССТ	۸ ۸ -		
161	A	F	S D		SI	I	E	V	Р									100
101	\sim	'	550	, ,	560	1	L		٢	Q			E	V S	G	N	٧	180
	ттт	CTT		CCCT		TOO		570	000		580		T	590			600	
101			GGTAC		ACATC		_								_	ACA —		
181	F	V	G T	Р	T S	G	ı	Н	G	Υ		_	_	P L	Q	T	F	200
	007	TOT:			620												660	
					GGGGA													
201	Α	S		T	G E		Р	I	S	S	T	P	_	P T	٧	R	R	220
			670		680			690			700			710			720	
	GTA	GCA(GGTCC	CCGC	CTTTA	CAGT	AGG	GCC	ГАС	CAA	CAAG	TGT(CTG	TGGCT	AAC(CCT	GAG	
221					L Y										N		E	240
			730		740			750		·	760			770			780	2.0
	TTT	CTTA	ACACG	TCCA	TCCTC	ТТТА	TTA		ΓΑΤ	GAC			CT		CCTC			
241					SS									E E	Р		D	260
_ · -	-	_	790	•	800	_		810	'	J	820		, 1	830	1	•	840	200
	ACT.	۲۵۵		ΔΤΤΤ	GAGCC	TCGT			277	CCT/			\TT		$C \Lambda T I$			
			L T					AATO N										200
201	1	ı	_	Γ	E P	К	٥	IN	V	٢	υ	S [<i>)</i>	- M	D	I	I	280

FIG. 3A SUBSTITUTE SHEET (RULE 26)

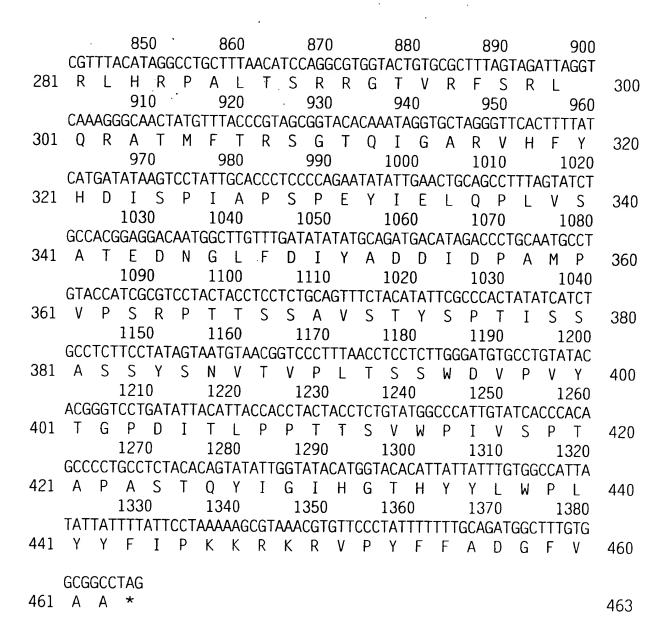
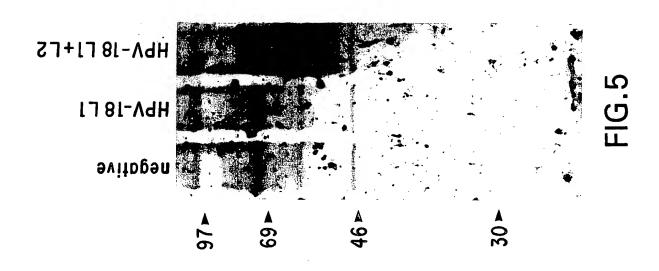


FIG. 3B





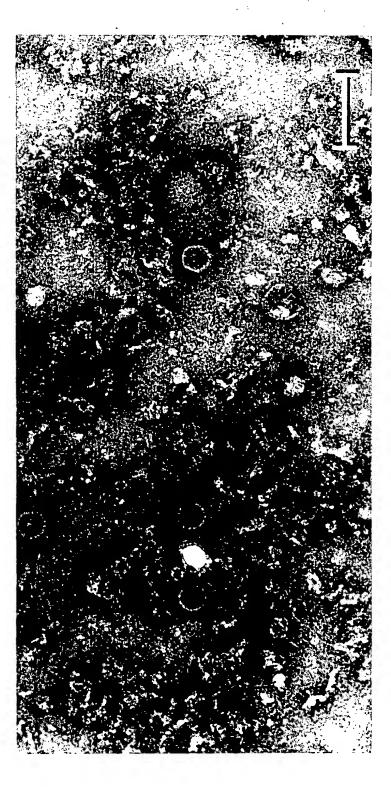


FIG.6